

AMENDMENTS TO THE CLAIM

Please replace the pending claims with the following claim listing:

1. (Currently Amended) An optical waveguide material comprising a crystal having a composition of ~~KTaO₃ (KT)~~ $K_{1-y}Li_yTa_{1-x}Nb_xO_3$ (KLTN: $0 < x, y < 1$);

wherein at least one element selected from the group consisting of Zr, Hf, and Sn substitutes for a portion of one element of the constituent elements of ~~KT~~ KLTN, and the crystal has the same perovskite type crystal structure as ~~KT~~ KLTN.

2-8. (Cancelled)

9. (Currently Amended) An optical waveguide comprising a core and a clad whose refractive index is lower than that of the core;

wherein at least either of a core material or a clad material is a crystal that has a composition of ~~KTaO₃ (KT)~~ $K_{1-y}Li_yTa_{1-x}Nb_xO_3$ (KLTN: $0 < x, y < 1$),

at least one element selected from the group consisting of Zr, Hf, and Sn substitutes for a portion of one element of the constituent elements of ~~KT~~ KLTN, and

the crystal has the same perovskite type crystal structure as ~~KT~~ KLTN, and

the refractive index difference between the core and the clad is controlled by the amount of the at least one element selected from the group consisting of Zr, Hf, and Sn.

10-15. (Cancelled)